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8/25/02
WOB



MEMORANDUM FOR: SAF/PAS
1690 Air Force Pentagon - 5D227
Washington DC 20330-1690

JUL 15 2002

FROM: 
Francis G. Hinfant, Col, USAF
Associate Director of Acquisition
NPOESS Integrated Program Office
8455 Colesville Rd, Suite 1450
Silver Spring, MD 20910

SUBJECT: Paper approval for: Ball Effort on CrIS SSM

Enclosed are the required ten (10) copies of the subject paper. This information will be used in "The Aeronews", a BATC internal company newsletter.

The program office has reviewed the information in the attached papers and found it appropriate for public disclosure without change.

Point of contact on this matter is Capt. Christina Muth, NPOESS IPO/ADA at 301-427-2084 (Ext. 114).

Attachment: Presentation—10 copies

Ball Effort on CrIS SSM

By the end of the July the Ball Aerospace-built engineering development unit (EDU) for the CrIS instrument's Scene Selection Module (SSM) is expected to be delivered to ITT Industries/Aerospace Communications in Fort Wayne, Ind. The SSM is a high-performance scanner that will provide Earth views to the Cross-track Infrared Sounder (CrIS) instrument. CrIS and the SSM will work in tandem to scan the Earth as part of the first wave of the National Polar-orbiting Operational Environmental Satellite System (NPOESS) program.

Although we have had schedule difficulty in the past, we have accepted a challenging schedule to meet the CrIS Program needs. The Team is rising to the challenge and the entire Team is performing heroic efforts.

The all beryllium structure was designed to allow minimum mass and maximum stiffness. The structure weighs approximately 7 kilograms. Additionally, the SSM "will look at more than 20 different Earth positions and must slew the mirror in-track for motion compensation for each position. Pointing and jitter requirements are tight," Ghost said.

Because the SSM scans continuously, reliability is an issue, as well. The SSM is expected to perform a billion cycles in its lifetime. SSM is to spend 7 years operating on orbit but has a 15-year life requirement because it may spend 8 years in storage, and must be capable surviving intermittent testing for any 3 of those 8 years.

"The SSM for CrIS is important to Ball Aerospace as another step in our business strategy to continue to be a major team member in the overall NPOESS program," said Scaglia. "How we perform on CrIS is important to the company in terms of our relationship to NPOESS for the future."

Scaglia said current plans are to deliver the first CrIS SSM flight unit in 2003 and the second flight unit in 2004. Launch is targeted for 2006.

Christina,

Send this to SAF/PA
for approval, but please
have Ball change the last
sentence to read: Launch
is targeted for 2006.

"Late this decade" implies
2008-2009, and the first SSM
will fly on NPP in 2006.

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